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4 ABSTRACT OF THE DISCLOSURE

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6 A filtration apparatus and method for filtering a stream. The apparatus comprises a rotor
7 that contains an inlet for the stream and an array of cavities operatively arranged to receive the
8 stream from the impeller. The rotor member further includes membranes, operatively positioned
9 within the array of cavities, for separating the impurities from the stream, and a permeate outlet
10 for delivering a permeate from the rotor. A drive member is included for rotating the rotor so that
11 the stream is exposed to a centrifugal force. In one preferred embodiment, the rotor contains a
12 baffle plate to distribute the stream about the inner portion and an impeller vane adapted to
13 receive the stream.